

VALIDATED REQUIREMENTS LIST FOR MEL IOC

Unless otherwise directed, the following shall be considered to represent the validated requirements for the IOC implementation.

March 4, 1998

REQUIREMENT	COMMENT
1. Implement enhanced MEL Access Site Software (MASS) and MEL Resource Site Software (MRSS) running under UNIX.	
2. Provide the capability for searching of metadata.	Design recommendations regarding whether to continue using WAIS or a Z39.50 solution to be provided by the Critical Design Review (CDR).
3. Bring all items under Configuration Management (CM) during development.	
4. Provide appropriate network access to Unclassified resources, plus a prototype capability for a Classified/Restricted Access Site at MSOSA and a Classified/Restricted Resource Site at NIMA, St. Louis, MO.	Design recommendations regarding the implementation of a Classified/Restricted capability to be provided by Critical Design Review (CDR).
5. Design, develop and implement a distributed architecture providing an API to current MEL functions (e.g., query, order, subscribe, order status, cancellation, order/subscription). The API to provide these functions to M&S applications in lieu of the web interfaces.	
6. Provide creation and management support for FGDC Contents Standards for Digital Geo-Spatial Metadata (CSDGM) metadata.	
7. Properly document the system to support design, development, testing, implementation and life-cycle support activities.	
8. Provide the capability to access, retrieve and subscribe to information described in the metadata.	

REQUIREMENT	COMMENT
9. Provide the ability to search metadata using keyword categories containing controlled vocabularies from one dictionary.	Categories, controlled vocabularies and entity/attribute lists to be provided by the EAs.
10. Provide robust user help and tutorial functions for novice users.	
11. Provide Administration tools to install, configure, and maintain the system.	
12. Provide data in pre-approved M&S and other domain-specific formats, as applicable.	
13. Define and document the minimal hardware, software and communications service configuration.	
14. Comply with standard software practices to facilitate interoperability and re-use of components.	
15. Design the MEL IOC software to be able to handle up to 10 queries per minute on the defined minimum system hardware and communications service configuration.	
16. Design the system to be capable of handling up to 15,000 metadata records.	